



Product Change Notification



Product Group: Opto Sensors & IRDC 26-JUN-2008 / PCN - OSI-194-2008 Rev. 0

TITLE: Product Discontinuation - EOL TEMD5000 / TEMD5100

DESCRIPTION OF CHANGE: Our SMD Photo-PIN-Diodes TEMD5000 and TEMD5100 will be discontinued. The recommended alternatives are our AEC-Q101 qualified parts: 1) TEMD5010X01 (as replacement for TEMD5000). 2) TEMD5110X01 (as replacement for TEMD5100). The Photo-PIN-Diode Chip inside remained the same. Therefore no influence on electro-optical behaviour is present. The attached FAST FACT "Replacement of TEMD5x00 with TEMD5x10X01" will provide further details.

CLASSIFICATION OF CHANGE: Product Obsolescence

REASON FOR CHANGE: The increasing quality requirements makes new package Designs necessary in order to withstand the high reliability market demands. In this context, we have developed our TEMD5x10X01 devices, which are fully qualified according to the high quality automotive standard AEC-Q101. The new parts are already running successful in production for more than 2 years and will now replace our "old" parts as mentioned above.

PRODUCT CATEGORY: Photo detectors

PART NUMBERS / SERIES / FAMILIES AFFECTED:

TEMD5000 / TEMD5100 (also refer to attached Partnumber List)

VISHAY BRAND(s): VISHAY SEMICONDUCTORS

TIME SCHEDULE:

Last Time Buy Date: 01-JUL-2009
Last Time Shipment Date: 31-DEC-2009

SAMPLES AVAILABILITY: 27-JUN-2008

This PCN is considered approved, without further notification, unless we receive specific customer concerns before: 01-OCT-2008 or as specified by contract.

ISSUED BY:

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Attached Part Number List:

Material list

TEMD5000
TEMD5100
66910000360301-00



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Replacement of TEMD5000 and TEMD5100 by TEMD5010X01, respectively TEMD5110X01 (in Accordance with PCN-OSI-194-2008)

Dear Vishay Customer, dear Vishay Sales Person,

Replacement of TEMD5000 and TEMD5100 by TEMD5010X01, respectively TEMD5110X01, will be easy considering design hints below. Most of the specifications are compatible but there are still some differences, shown in table 1. Additionally figure 1 and figure 2 illustrate mechanical deviations of package outline and solder pads.

Different specifications	TEMD5000 TEMD5100	TEMD5010X01 TEMD5110X01	Unit	TEMD5010X01, TEMD5110X01 Design-in
AEC-Q101 release	no	yes		For Automotive applications
Minimum storage temperature	-55	-40	°C	Minor change of specification
Moisture sensitivity level	3	4		Short floor life: 72h (former 168 h)
Package outlines:				
Width	4	4,25	mm	Check dimension (see figure 1)
Solder pad layout				Redesign solder pads (see figure 2)

Table 1: Different specifications in datasheets

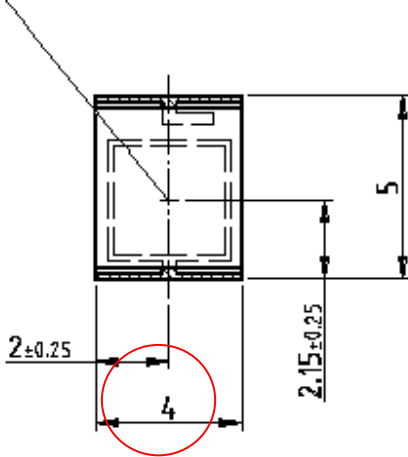


Fast Facts

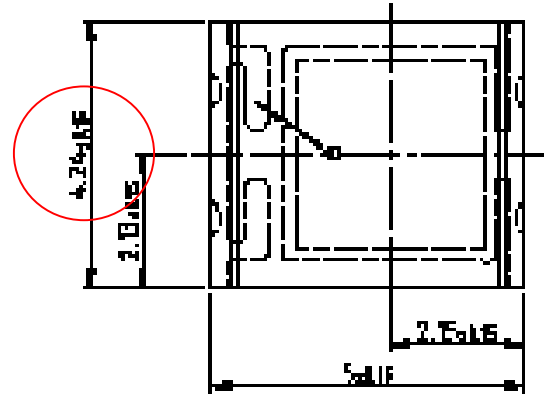


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DIE DIMENSIONS 3x3mm
DIE CENTER



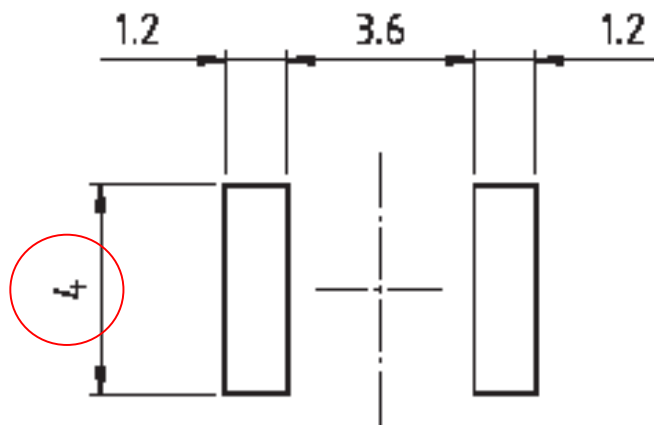
TEMD5000, TEMD5100



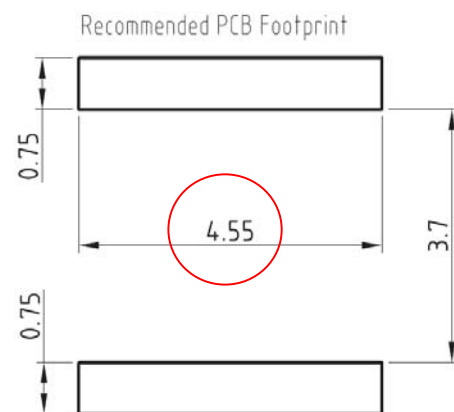
TEMD5010, TEMD5110

Figure 1. Different package width

For reflow soldering



TEMD5000, TEMD5100



TEMD5010, TEMD5110

Figure 2. Different solder pad layout



Fast Facts



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Please do not hesitate to contact the division in case you have any questions.

Thanks for supporting Vishay Optoelectronics.

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